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NEWSLETTER

of the

Hawaiian Botanical Society

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c/o DEPARTMENT OF BOTANY
UNIVERSITY OF HAWAII
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PRESIDENT'S MESSAGE

Maxwell S. Doty

The editor of the News Bulletin has asked that the incoming President of the Society provide a "State of the Society" message or a key-note speech for this issue. The State of the Society can be given easily. It is in a splendid state and under the past few Presidents steps have been taken of increasingly large size toward improving the Society. A botanist in Washington, who is very active nationally and internationally, wrote back when approached recently about renewing his membership with "Well, I used to be a member, but the Society hasn't been doing much until lately." However, we got him to renew his membership easily with a copy of the Newsletter and knowledge of the present state of the Society.

We should be able to coast along to a fine conclusion this year on the splendid start given, and we could easily keep up the growth rate if it were linear with time. However, I don't see how one officer, or even the whole executive committee, can continue alone the rather logarithmic increase in activities our previous officers have initiated toward making the Society more active and functional. It would seem that this year's executive committee is going to be busy doing just what its title indicates, with this "execution" being largely of things initiated in recent years. As to the ever increasing pace, that is the problem.

Whether you are a tourist in the islands tossing rice grains to the sparrows at the Halekulani, having a picnic with the kids on the grass at Ala Moana Park, or grubbing your way up (and it is always "up", isn't it?) the Koolaus as a Trail and Mountain Clubber, botany demands a great amount of your attention and determines a great deal of the success of the venture. You don't have to be an industrialist in cane, coffee or pine to realize that botany is a pre-eminent activity here. This is the Society to which those interested in the more academic aspects of botany should turn for scientific leadership, and I hope the Society can provide this leadership.

Various procedures could lead to enhancing the role of the Hawaiian Botanical Society this year. Quite naturally the procedures and success will depend upon the compliment of abilities your executive committee can bring to bear; so... Please join these activities in one way or another. We must have more people active to put into effect the ideas and activities outlined and initiated in the past; though, of course, we need new ideas too.

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SHOUT
SHARE
IT

P R E S I D E N T ' S M E S S A G E (Continued from page 25)

Individuals like yourself can help with little effort by reporting and providing liason between the Hawaiian Botanical Society and the other plant oriented organizations. In doing this bring in suggestions as to how the Botanical Society might help the other Societies attain their botany-related objectives. News of botanically significant events or visitors should be reported to a member of the Botanical Society Newsletter Committee (See list elsewhere in this issue).

Actually, making the Newsletter better is bound to improve the Society in the State by broadening the base of awareness among Botany's friends and disciples. This will be especially true if we can get the Newsletter to the right people--people who are interested in the scientific botany of our Hawaii. The Newsletter is distributed to all members of the Society; so another way you can help your Society is by seeing that these people become members of the Society. Tell Dr. Louis Nickell (HSPA Experiment Station; 64-543) about people who should see the Newsletter each month as members: he is the Chairman of our Membership Committee.

This very well may turn out to have been the year when the Botanical Society developed the use of this Newsletter. It has been suggested that some members of the Society may want to mark some particular item in some copy of the Newsletter and send it with a covering letter to some particular person. Contact any of the members of the Executive Committee with your ideas for improving the use of the Newsletter.

Your executive committee suggests the Society consider new activities: e. g., a summer foray to Kapapa Island on the reef in the mouth of Kaneohe Bay. What are your ideas? It has been suggested that the meetings in addition to their present features include a compliment to the main speech of the evening in the way of a brief scientific display of techniques, organisms and botanical objects that are Hawaiian. This would be the continuation of a practice initiated by Dr. Harold Lyon during one of his latter active years with the Society. Let's keep up and even amplify the shows of interesting plants, even we can't out do Oscar Kirsch. Again, what are your ideas? All these things should go to making this Society more than a turning wheel. In other words this year let us amplify the Society's velocity in addition to increasing speed. "Velocity," scientifically speaking as apposed to "speed," means adding direction to the Society's motion with your help.

U N I V E R S I T Y O F H A W A I I

Dr. Albert J. Bernatowicz, Associate Professor of Botany and General Science, presented one of the University's world affairs public lectures. His topic was "Cambridge University, England." Dr. Bernatowicz spent a term at Cambridge last year studying the history and philosophy of science. His field of specialization is phycology.

Dr. & Mrs. Harry F. Clements donated a total of $10,000 to the Library for the purchase of books. Various amounts have been given during the past few years, with the most recent one of $1,500 bringing it to the completed amount. The income from the Harry F. & Louise M. Clements Library Book Fund will be used to purchase books not provided for in the library's regular budget. Dr. Clements is Senior Plant Physiologist at the Hawaii Agricultural Experiment Station and has been with the University since 1937. He is well known as the originator of the crop logging system and as an authority on sugar cane culture.

A collection of economic tropical plants is being propogated at the Waimanalo research farm of the H.A.E.S. This project is under the direction of Dr. Robert M. Warner, Professor of Horticulture.

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U N I V E R S I T Y O F H A W A I I (Continued from page 26)

The judges of the Science Fair next month will be: H. F. Clay (chairman), T. Sheehan, J. Brewbaker, T. Murashige, R. Warner, Y. Nakagawa, W. Yee, R. Romanowski, and J. Tanaka.

Dr. James Cameron, Senior Scholar in Horticulture (East-West Center) will deliver a lecture entitled "Citriculture in California" to the Nurserymen's Association on January 29 at 7:30 p.m. in Henke Hall 200.

Dr. Newton E. Morton, Chairman-designate of the Department of Genetics, is in Hawaii for a two weeks' period to make plans for the coming academic year. The department moved from Dean Hall to the recently completed Health Research Institute Building last month. He returns to his National Institutes of Health research programs in Brazil early this month and will be back in Hawaii in June. Prior to accepting the appointment at the University as Professor of Genetics, he was at the University of Wisconsin, where he obtained his doctorate. Dr. Morton received his B. A. from the University of Hawaii in 1951 and is married to the former Nancy Okazaki of Honolulu. Last year the Human Genetics Society presented him the William Allen Award for being the outstanding human geneticist of the world. This is the second time that the award has been conferred.

Four Master of Science degrees in Botany will be awarded by the University at the end of the Fall 1962-63 semester. The recipients and their thesis topics are:

Mr. Aprilany Soegiarto, Bogor, Indonesia, "Primary productivity of benthic algae in a tropical bay (Hanauma Bay)."

Mr. Tadayuki Kato, Kapaa, Kauai, "An anatomical investigation of the arboreus Hawaiian Nyctaginaceae."

Miss Tiamjai Komkris, Bangkok, Thailand, "The structure and ontogeny of Euphorbia Degeneri Sherff."

Miss Rastini Rasid, Bogor, Indonesia, "Phenology and floral ontogeny of the skunk tree, Sterculia foetida Linnaeus."

Mr. Soegiarto worked under the direction of Dr. Maxwell S. Doty, and the other three students, with Dr. Charles H. Lamoureux.

Dr. Charles H. Lamoureux of the Department of Botany, University of Hawaii, will be attending a conference in Chicago on February 2-3, 1963. The conference, sponsored by the Biological Sciences Curriculum Study of the American Institute of Biological Sciences, is concerned with in-service institutes to prepare high school biology teachers in the teaching of BSCS Biology.

Dr. Harold B. Tukey, retired Head of the Department of Horticulture at Michigan State University is in Honolulu for three months, serving as a consultant to the Institute of Advanced Projects at the East-West Center.

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U N I V E R S I T Y O F H A W A I I (Continued from page 27)

SPRING SEMESTER COURSES (February 5 - June 12, 1963). Registration is from February 5-9, and instruction begins on February 11.

Department of Botany: Bot 101, General (G. Fogg & H. Whittier); Bot 103, Evolution (G. Fogg); Bot 160, Flower & Tree Identification (T. Cooperrider); Bot 399, Problems (Staff); Bot 412, Microtechnique (C. Lamoureux); Bot 425, Nonvascular Plants (H. Whittier); Bot 430, Mycology (L. Olive); Bot 461, Taxonomy & Exploration (T. Cooperrider); Bot 470, Principles of Plant Physiology (J. Lockhart); Bot 571, Advanced Physiology (B. Cooil); Bot 573, Techniques of Physiology (E. Putman); Bot 610, Seminar (L. Olive); Bot 612, Advanced Problems (Staff); Bot 615, Morphology Seminar (C. Lamoureux); Bot 665, Nomenclature (M. Doty); Bot 675, Physiology Seminar (B. Cooil); Bot 684, Phycology (M. Doty); Bot 699 and Bot 799, Directed Research (Staff).

Department of General Science: Sci 121, Introduction to Science (E. A. Kay); Sci 530, History of Science (A. J. Bernatowicz); Sci 620, Science as a Human Activity (E. A. Kay); and Sci 651, Science for Secondary School Teachers (M. Frodyma).

Zoology 602, Preparation of Scientific Manuscripts (L. Tuthill).

Department of Genetics: Gen 518, Cellular Genetics (J. B. Smith); Gen 618, Cytogenetics (C. Rick); Gen 625, Advanced Topics (S. Stephens); Gen 654, Seminar (Staff).

Department of Agronomy (and Soil Science): Agron 502, Principles of Agronomy (O. Younge); Agron 503, Range Management (P. Rotar); Agron 510, Sugar Cane (R. Fox); and Agron 699, Directed Research (Staff).

Department of Horticulture: Hort 362, Principles of Tropical Pomology (R. Warner); Hort 464, Orchidology (T. Sheehan); Hort 494, Systematic Vegetable Crops (J. Gilbert); Hort 603, Experimental Design (J. Brewbaker); Hort 667, Horticulture Seminar (T. Murashige); Hort 691, Crop Ecology (R. Warner); Hort 699, Directed Research (Staff); and Hort 711, Special Topics (J. Brewbaker).

Department of Plant Pathology: P Path 625, Advance Plant Pathology (R. Hine); P Path 660, Seminar; and P Path 699, Directed Research (Staff).

The Department of Botany distributed 22 sets of the 29 most common brown algae of Hawaii. There were not enough sets to go to all places desired, so the distribution was made to the institutions where taxonomic work with tropical Phaeophyta is currently leading to publication and the herbaria abundant in such materials. Mr. Roy Tsuda, a senior major in botany, was the collector and preparator. This work was performed under the direction of senior phycologists in the department to insure taxonomic uniformity of the specimens distributed under any given number.

S O C I E T Y M E E T I N G

TIME: Monday, February 4 - 7:30 p. m.

PLACE: Agee Hall, Experiment Station of the Hawaiian Sugar Planters' Association, 1527 Keeaumoku Street, Honolulu.

SUBJECT: "Botanical aspects of a visit to Kenya."

SPEAKER: W. W. Goodale Moir, President of the Hawaiian Botanical Gardens Foundation, Inc. Mr. Moir retired from American Factors in 1961 after serving for 36 years as an Agriculturist and Consultant. Prior to that time he was with Pioneer Mill Co. and the HSPA Experiment Station. His fields of interest are horticulture, agriculture, orchids, and botanical gardens. He is a graduate of Cornell University.

O F F I C E R S

President during the 1963 calendar year is Dr. Maxwell S. Doty, Professor of Botany, University of Hawaii. He received his bachelor's and master's degrees from Oregon State College, and his doctorate from Stanford. Coming to Hawaii in 1951 from Northwestern University, he has concentrated his algal interests to the Pacific area. He is currently Secretary of the Standing Committee on Pacific Botany of the Pacific Science Association (as well as of its subcommittee on algae) and in charge of the intercalibration productivity work for the Indian Ocean Expeditions. At the University he is a member of the following faculty committees: Forestry, Hawaii Marine Laboratory Advisory Board, Advisory Committee to assist with planning of new facilities for Coconut Island, and Nuclear Science (co-chairman).

Oscar Kirsch is Vice-President, and is an orchid grower. His primary object at the present time is to keep 50,000 orchid plants hale and hearty with the least effort. Originally from Austria, where he attended the Austrian State School of Horticulture, he has been employed by the Arnold Arboretum and other horticultural establishments before coming to Hawaii. Besides belonging to numerous orchid societies, he is a member of the Executive Committee, International Commission on Classification, Nomenclature, and Registration (World Orchid Conference). He is responsible for the attractive orchid displays at each Society meeting.

Secretary and Assistant Editor of the Newsletter is Dr. Toshio Murashige, who did his undergraduate work at the University of Hawaii and his graduate work at Ohio State University (M. S.) and the University of Wisconsin (Ph. D.). He is Assistant Professor of Horticulture and Assistant Horticulturist (HAES) at the University of Hawaii. His fields of interest are plant physiology, tissue culture, and growth substances. He has three research grants for research on the papaya replant problem, organ differentiation in plant tissue, and papaya growth inhibitors. He is one of the Science Fair judges this year.

William M. Bush has been Treasurer of the Society since 1940, and holds the distinction of having a Society office for the longest period. He is Executive Vice-President of Castle & Cooke, Inc. While a university student he served as an assistant and plant collector for E. Christophersen on the Bishop Museum's Tanager Expedition (Trip E) to Nihoa and Necker Islands. On this trip 500 herbarium specimens were collected.

Serving on the Executive Committee after being President in 1962, Dr. Charles H. Lamoureux is also busy this year as Chairman of the Department of Botany, University of Hawaii. He visited the Leeward Islands in 1961 and Midway Atoll in December 1962. He plans to write a paper on the botanical and natural history aspects of Midway. Other

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O F F I C E R S (Continued from page)

research projects include the anatomy of Hawaiian lobelioids, survey of air-borne pollen, and plants of the Leeward Hawaiian Islands. Lamoureux received his B. S. from the University of Rhode Island, his M. S. from the University of Hawaii, and his Ph. D. from the University of California (Davis). He is chairman of the Flora Conservation Committee of the Conservation Council for Hawaii, the University's Campus Beautification and Landscaping Committee and a member of the Arboretum Committee.

The other Executive Committee member is Alvin K. Chock, who is also Newsletter Editor. He is a Plant Quarantine Inspector with the Agricultural Research Service, U. S. Department of Agriculture, and also Assistant Botanist at the Bernice P. Bishop Museum and Lecturer in Botany at the University of Hawaii. He did his undergraduate work at Hannibal-LaGrange College (A. A.) and the University of Hawaii (B. A.), and graduate work at the University of Hawaii (M. S.) and University of Michigan. Fields of interest include taxonomy and ethnobotany. Chock is also Director of the Hawaiian Junior Academy of Science and a member of the Flora Conservation Committee of the Conservation Council for Hawaii. Current research includes Pacific Island flora check lists and a textbook on Hawaiian ethnobotany.

Dr. Louis G. Nickell is Chairman of the Membership Committee. He is Principal Physiologist & Biochemist at the HSPA Experiment Station. Nickell received his doctorate from Yale University, and his fields of interest are chemical control of growth, tissues and cell culture, plant growth regulators, antibiotics, economic botany, plant nutrition, and atypical growth. Prior to his arrival in Hawaii in 1961, he was Head of the Phytochemical Laboratory at Charles Pfizer & Co., Inc.

Kalfred K. Yee is a member of the Membership Committee. He is President-Manager of Garden City, Inc., and Exotics Hawaii, Ltd. His fields of interest are botanical gardens and orchids. Yee received his bachelor's degree from the University of Hawaii and did graduate work at the University of Michigan. Besides belonging to several orchid and nurserymen's organizations, he is president of the Honolulu Orchid Society.

The other member of the Membership Committee is Dr. James L. Brewbaker, Associate Professor of Horticulture and Associate Horticulturist (HAES), University of Hawaii. His projects, supported by research grants, include pollen cytogenetics and physiology, corn breeding, and radiation botany. He is co-chairman of the university's faculty committee on Nuclear Science. He studied at Southern Methodist University, Texas University, Colorado University (A. B.) and Cornell University (Ph. D.). Prior to coming to Hawaii in 1961, he was with the Brookhaven National Laboratory, University of Philippines, and University of Lund, Sweden.

O R G A N I Z A T I O N N O T E S

President Doty made the following appointments at the January meeting: NEWSLETTER COMMITTEE - Alvin K. Chock (chairman), Horace F. Clay, Robert W. Leeper, Toshio Murashige, Louis G. Nickell, and Paul Weissich;REPRESENTATIVES TO THE CONSERVATION COUNCIL FOR HAWAII - Ernest G. Holt and Donald Anderson (alternate); REPRESENTATIVES TO ISSEC (Inter-Society Science Education Council) - Robert Coleman and Alvin K. Chock (alternate); and PARLIMENTARIAN - E. J. Britten.

The Society has decided to deposit non-current files in the Hawaiian and Pacific Collection, University of Hawaii Library. Miss Janet Bell, Curator, will maintain the files. The file cabinet which housed the Society's files will also be deposited at the University. This action was brought about after preliminary discussions on this matter had taken place between Miss Beatrice Krauss and Miss Bell.

P L A N T Q U A R A N T I N E D I V I S I O N

Kenneth L. Maehler, Pacific Region Supervisor, is visiting Hawaii's Plant Quarantine ports and stations. During this three weeks' trip he will visit Hilo for a brief period and spend most of his time in Honolulu discussing procedures and operations with local supervisors and inspectors. He returns to San Francisco in early February.

B O T A N I C A L N O T E S

THE NATURE CONSERVANCY: The first issue (No. 1) of Conservancy West appeared in December 1962. This mimeographed newsletter is published by The Nature Conservancy's Western Regional Office (Berkeley 9, California) and the first number covered activities and events during the period from September to November 1962.

J. F. ROCK BIOGRAPHY: The article which appeared in the January issue of the Newsletter will appear in the March 1963 issue of Taxon, the journal of the International Association for Plant Taxonomy.

Dr. F. Raymond Fosberg of the U. S. Geological Survey and Editor of Atoll Research Bulletin (issued by the Pacific Science Board) will make an overnight stopover in Honolulu on his way to Guam this month. He will spend a few days in Hawaii before returning to Washington, D. C.

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B E R N I C E P . B I S H O P M U S E U M

PACIFIC SCIENTIFIC INFORMATION CENTER: The Information Center, established in April 1960, and supported by a National Science Foundation grant, serves as a clearing house for scientific information about the geography, natural and social sciences of the Pacific area. Files are being compiled about Pacific scientists, Pacific data, bibliography (the column "Recent Publications" in this Newsletter is incorporated into this file), and check lists of plants and animals. A list of Pacific anthropologists has been published, and the one on botanists (last issued in August 1961) is being revised. A series of publications have been issued on scientific facilities in Indonesia, Malaya, Singapore, and Viet-nam, and a companion one for Polynesia, Micronesia, Melanesia, and New Guinea is in preparation. The latter project has been endorsed by the South Pacific Commission which is providing funds for a trip and facilities at its headquarters in Noumea.

E. H. Bryan, Jr., Manager of the Center, will spend a month visiting Tahiti, New Caledonia, Australia, New Zealand, Fiji, and Samoa in conjunction with this project. The contents of the proposed publication includes a brief background of each area, science education, available scientific manpower, scientific research institutions and societies, scientific publications, and a summary of the work done by institutions outside of the area. The object of the trip is to discuss with informed persons about the research institutions and activities of the various island areas.

EXCHANGES: The Herbarium distributed over 2,000 sheets of flowering plant and fern herbarium specimens to eleven foreign and seven U.S. botanical institutions. These shipments were made in continuation of the open exchange relations which the Museum has with other herbaria. The plants had been collected in the Hawaiian Islands (both windward and leeward), Samoa, Fiji, and Rotuma. All of the regular staff members (Miss Marie C. Neal, Botanist; Mr. Alvin K. Chock, Assistant Botanist; and Mrs. Annie Ho Coker, Laboratory Assistant) were involved in the project, and Mr. Henry O. Whittier, Instructor in Botany, University of Hawaii, lent his assistance.

PACIFIC SCIENCE ASSOCIATION[1/]

TENTH PACIFIC SCIENCE CONGRESS PUBLICATION PLANS: Various 10th PSC symposia papers and reports are expected to be published early in 1963. These include: "Ancient Pacific floras: the pollen story," Lucy M. Cranwell, editor (University of Hawaii Press, aided by a grant from the State of Hawaii); "Pacific basin biogeography," (the four parts are: Bering Arc relationships; Tropical relationships; Antartic relationships; and Modification of biotic balance of island faunas and floras), J. Linsley Gressitt, gen-editor; "Plants and the migrations of Pacific peoples," Jacques Barrau, editor (Bishop Museum Press, aided by a National Science Foundation grant); and "Man's place in the island ecosystem," F. R. Fosberg, editor (Bishop Museum Press, with financial assistance of UNESCO and the State of Hawaii, through the University).

COMMENTS ON 10TH PSC RESOLUTIONS: When President Laurence H. Snyder forwarded the 10th PSC resolutions to representative institutions of the PSA, he requested that they be brought to the attention of appropriate scientific institutions in member countries. Some of the comments received are indicated below.

Resolution 10, on the importance of plant exploration: the Director of the Royal Botanic Gardens, Kew, would be glad to receive good fully annotated material of wild rices.

Resolution 18, on the establishment of nature reserves for the preservation of the indigenous flora, particularly of the endemics, will receive the fullest support of Kew. Surveys should be made and the richest areas selected for conservation, carried out by local botanists with the assistance, if necessary, from botanists of other areas.

Resolution 20, on regional monographic floras, Kew is contributing on the identification of collections and will have four botanists working on the plants of these areas, including Borneo, New Guinea, Solomon Islands, Australia, Fiji Islands, Tonga and New Zealand.

Resolution 8, on the establishment of a taxonomic survey of the coconut palm was questioned by Fiji because of the tremendous variability encountered and the possible spread of diseases through the exchange of seed nuts. They considered the establishment of living collections worthwhile and perhaps the first step to be taken in the working out of the taxonomy.

Resolution 17, Fiji called attention to the botanical gardens at Lae, New Guinea, and stated that each of the larger territories should have a good botanic garden where collections of native and introduced trees are maintained for study and for the education and pleasure of the people.

TROPICAL CROPS IMPROVEMENT has been issued by the South Pacific Commission in mimeographed form. This 10th PSC symposia may be obtained from the SPC, Box 5254, G.P.O., Sydney, Australia, for $1.40.

STANDING COMMITTEE ON PACIFIC BOTANY: Dr. Jacques Barrau (Chairman, subcommittee on ethnobotany), South Pacific Commission, Noumea, New Caledonia; Mr. A. Dilmy (Chairman, subcommittee on medicinal plants), Herbarium Bogoriense, Kebun Raya Indonesia, Bogor, Indonesia; Dr. M. S. Doty (Secretary of the committee), Department of Botany, University of Hawaii, Honolulu 14, Hawaii; Prof. Ramon Ferreyra, Museo de Historial Natural "Javier Prado," Apartado 1109, Lima, Peru; Dr. F. R. Fosberg (Chairman of Committee), Pacific Vegetation Project, c/o National Academy of Sciences, 2101 Constitution Ave., N. W., Washington 25, D. C.; Ing. Efraim Hernandez Xolocotzi, Escuela Nacional de Agricultura, Laboratorio de Botanica Sistematica, Chapingo, Mexico; Dr. Elizabeth McClintock (Chairman, subcommittee on the protection of nature in the Pacific), Dept. of Botany, California Academy of Sciences, San Francisco 18, Calif.; Prof. M. E. D. Poore, Dept. of Botany, University of Malaya, Pantai Valley, Kuala Lumpur, Malaya.

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PACIFIC SCIENCE ASSOCIATION[1/] (Continued from page 32)

Prof. Robert F. Scagel (Chairman, subcommittee on Pacific algology), Dept. of Biology and Botany, University of British Columbia, Vancouver 8, B. C.; Prof. C. G. G. J. van Steenis (Chairman, subcommittee on Pacific plant areas), Rijksherbarium, Leiden, Netherlands; Dr. Mona Lisa Steiner (Chairman, subcommittee on vernacular names), Kempten Allgau, Augartenweg 35, Germany; Mr. R. Story (Chairman, subcommittee on Pacific plant ecology), C.S.I.R.O., P. O. Box 109, City, Canberra, A. C. T., Australia; Mr. Kasin Suvatabandhu, Botany Dept., Chulalongkorn University, Phya Thai Road, Bangkok, Thailand; Dr. Donald Walker (Chairman, subcommittee on Pacific palynology), Botany Dept., The Australian National University, Box 4, G. P. O., Canberra, A. C. T., Australia; Dr. E. H. Walker (Chairman, subcommittee on Pacific bibliography), 7413 Holly Ave., Takoma Park, Maryland; Mr. D. E. Yen (Chairman, subcommittee on Pacific plant genetics), D. S. I. R. Crop Research Division, Robinson Road, Otahuhu, New Zealand.

1/ Pacific Science Association Information Bulletin 14(5/6), Sept./Nov. 1962.

RECENT PUBLICATIONS

CHOCK, ALVIN K., & DEAN C. HAMILTON, JR. (Dec. 15) 1962. Plants of Christmas Island. Atoll Res. Bul. 90: 1-7, map.

CLAY, HORACE F., & JAMES C. HUBBARD. 1962. Trees for Hawaiian gardens. Univ. Hawaii, C.E.S. Bul. 87: 103 pp., 150 figs. $2.25.
This pictorial essay on ornamental horticulture and landscape uses of Hawaiian garden trees is the first of a series of Hawaiian garden books to be published by the Cooperative Extension Service of the University of Hawaii. The book is divided into five parts: growth (roots, structure, bark, leaves, and fruit), use (balance, protection, anchors, and special effects), landscape (the site, garden, cosmopolitan garden, Chinese garden, Japanese garden, and Hawaiian garden), care (preparation, planting, pruning and surgery), and selection (garden and street trees). The simple format and the outstanding photography by Fortunato Teho (Robert Wenkam photographed the full-page plates) make it an attractive and artistic publication. The last portion describes briefly 125 species of trees, pointing out the desirable and undesirable qualities of each as garden trees.
Dr. Clay, Associate Specialist in Horticulture and Associate Professor of Horticulture, and Mr. Hubbard, Home Economist in Landscape Design, will prepare two additional volumes in this series of plants for Hawaiian gardens: shrubs, vines, and ground cover. (AKC)

DARWIN, CHARLES. (Dec. 15) 1962. Coral Islands. (with introduction, map and remarks by D. R. STODDART). Atoll Res. Bul. 88: 1-20, 1 map, 4 figs.

DEGENER, OTTO, & ISA DEGENER. (Jan. 18) 1963. Flora Hawaiiensis. Vol. 6; 34 pp., 14 figs. (Ceratopteris thalictroides, Doryopteris tryonii, Spenomeris chusana, Polystichum Hillebrandii, Pennisetum setosum, Cladium mariscus ssp. jamaicense, Gahnia kauaiensis, Rhynchospora sclerioides, Boussingaultia cordifolia, Magnolia, Pittosporum acuminatum (vars. Degeneri, leptopodum, magnifolium, and waimeanum), Fragaria, Bauhinia monandra, Dombeya, D. Burgessiae, and Rapanea sandwicensis (and var. mauiensis).

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R E C E N T P U B L I C A T I O N S (Continued from page 33)

FOSBERG, F. R., & M.-H. SACHET. (Dec. 15) 1962. Vascular plants recorded from Jaluit Atoll. Atoll Res. Bul. 92: 1-39.

FOSBERG, F. R., & M.-H. SACHET. (Dec. 15) 1962. Atoll news and comments. Atoll Res. Bul. 94: 1-19.

MARTIN, J. P., E. V. ABBOTT & C. G. HUGHES. (Editors). 1961. Sugar cane diseases of the world. Vol. I. x + 542 pp., 22 color pls., 8 tabs., 145 figs. I. S. S. C. T. $29.75.

In 1956 the International Society of Sugar Cane Technologists authorized the preparation of a book about sugar cane diseases, to be prepared by the scientist(s) with the specialized experience about the particular pathogen. Because of the material accumulated, the material is to be published in two volumes, with the second one appearing at a later date. This is a technical publication on the principal diseases of sugar cane throughout the world, and is valuable to sugar cane growers in every country, as well as to scientific institutions and universities. The first volume begins with a discussion of the anatomy of the sugar cane plant, and concludes with a list of sugar cane diseases and their world distribution. The following diseases are discussed: gumming, leaf scald, red stripe, brown stripe, downy mildew, eye spot, Fusarium sett or stem rot, leaf scorch, pineapple disease, pokkah boeng, red rot, root rot, Sclerophthora disease, smut, yellow spot, chlorotic streak, Fiji disease, mosaic, ratoon stunting, streak, and phanerogamic parasites. Literature references listed total 777. Editors of the volume are J. P. Martin, Principal Pathologist, HSPA Experiment Station, Honolulu (who authored Sugar Cane Diseases in Hawaii in 1938); E. V. Abbott, Principal Pathologist, A.R.S., U. S. Dept. of Agriculture; and C. G. Hughes, Senior Pathologist, Bureau of Sugar Experiment Stations, Brisbane, Australia. (AKC & LGN)

C O N S E R V A T I O N C O U N C I L F O R H A W A I I [2]

EXECUTIVE BOARD MEETINGS: February 6, 7:30 - 9:30 p.m., in Paki Hall (the building nearest the Kalihi Street entrance and parking lot), Bernice P. Bishop Museum. All Executive Board meetings will be held at the same time on the first Tuesday of each month at the Bishop Museum. Interested members and representatives of affiliated organizations are urged to attend.

1963 EXECUTIVE BOARD: President - Dr. Roland W. Force, Bernice P. Bishop Museum; Vice-President - Dr. E. J. Britten, Dept. of Agronomy and Soils, University of Hawaii; Secretary - Mr. Herbert R. Welder, Jr., Alexander and Baldwin, Inc., P. O. Box 3440, Honolulu 1; Treasurer - Miss Irva Brubacker, c/o H. V. van Holt, 816 Fort Street, Honolulu; Land Committee - Mr. Ray Hefty, Board of Water Supply, City and County of Honolulu; Water Committee - Mr. Peter H. N. Kendall, Oahu Sugar Co., Ltd., Waipahu; Flora Committee - Dr. Charles H. Lamoureux, Dept. of Botany, University of Hawaii; Fauna Committee - Dr. Hubert Frings, Dept. of Zoology, University of Hawaii; Sites Committee - Mr. Ted Damron, Dept. of Land and Natural Resources, State of Hawaii, P. O. Box 621, Honolulu; Recreation Committee - Mr. Lorin Gill, Palama Settlement, 810 North Vineyard St., Honolulu 17; Legislative Committee - Mr. William V. Ward, Bank of Hawaii, 140 South King Street, Honolulu 13; Education Committee - Mr. Gunter Seckel, Bureau of Commerical Fisheries (U.S. Fish & Wildlife Service), P. O. Box 3830, Honolulu 12; and Scenic Inventory Committee - Mr. Robert Wenkam, 3578 Waialae Avenue, Honolulu 16.

(Continued on page 35)

C O N S E R V A T I O N C O U N C I L F O R H A W A I I [2]

(Cont'd from page 34)

SCENIC INVENTORY COMMITTEE: Members of this new committee are Robert G. Wenkam, chairman; Charles H. Lamoureux, Lorin T. Gill, Richard H. Davis, and David C. Sanford. Maps are in preparation which will delineate boundaries of conservation zones for watersheds, scenic areas, park lands, and related activities which should be protected under the Land Use Law.

CONSERVATION COURSE: Geography 507, Conservation and Utilization of Natural Resources, is being offered at the University of Hawaii during the Spring Semester. This is a three-credit course.

STATE LAND USE BOUNDARIES: The suspense date for the proposed State Land Use boundaries (Act 187) is January 11, 1963. After this date, until July 11, 1963, formal public hearings will be held on possible modifications. Conservationists should prepare themselves to defend the boundaries of the conservation zones.

CONSERVATION PROBLEMS to be presented to the Conservation Council for Hawaii should be presented to the appropriate committee chairman (see list above), rather than to the Executive Board. This method will allow the committee to study the matter concerned thoroughly. Anyone desiring to participate in any of the committees should contact the committee chairman concerned.

DUES for the Council are $1.00 per year and should be remitted to the Treasurer.

The Conservation Council for Hawaii is sponsoring a Conservation Conference to be held at the Princess Kaiulani Hotel on Tuesday, February 12, 1963. While the program had not been completed at press time, it will be similar in format to the State Parks Conference sponsored last year by the Chamber of Commerece, and will include both local and nationally known speakers.

The program will start at 8:30 A. M. and will last until about 2:30 P. M. The registration fee will be $3.75, which includes the cost of the luncheon. For further information watch the newspapers, or contact the Conservation Council for Hawaii, c/o B. P. Bishop Museum. (Tel. 855-951).

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[2] (In part) Newsletter, The Conservation Council for Hawaii, December 24, 1962.

B O T A N I C A L N O T E S (Continued from page 31)

A recent letter from Dr. Richard S. Cowan says that he has almost abandoned the life of a flowering plant taxonomist and has become Assistant Director of the Museum of Natural History, U. S. National Museum, Smithsonian Institution, Washington, D. C. The 'almost' is because he says, "I am still expected to do some research and so far I have taken the time each week to do it and I will resist all attempts to reduce ... me ... to the status of pencil-pushers." He expressed his delight in meeting old fellow Hawaiian botanists as Dr. Isabella Aiona Abbott, Dr. Donald P. Rogers, and Dr. W. H. Wagner, Jr. at the A.I.B.S. meetings at Corvallis. He also expressed the thought that he should have come to Hawaii for the 10th Pacific Science Congress. Both he and another Washingtonian-Hawaiian (Dr. F. Raymond Fosberg of the U. S. Geological Survey) have requested reinstatement of their memberships in the Society.

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c/o Department of Botany, University of Hawaii, Honolulu 14, Hawaii

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The HAWAIIAN BOTANICAL SOCIETY was founded in 1924 to "advance the science of Botany in all its applications,encourage research in Botany in all its phases," and "promote the welfare of its members and to develop the spirit of good fellowship and cooperation among them." "Any person interested in the plant life of the Hawaiian Islands is eligible for membership in this Society."

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The Hawaiian Botanical Society Newsletter is published monthly, except during the summer months of July, August, and September. It is distributed to all Society members and other interested individuals and institutions, with the purpose of informing them about botanical news and progress in Hawaii and the Pacific. News contributions and articles are welcomed. The deadline for submission of news items is the 20th of each month prior to publication.

Duplicated at the University of Hawaii and Bernice P. Bishop Museum.

Membership Dues are $2.00 per calendar year and include receipt of the Newsletter.

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